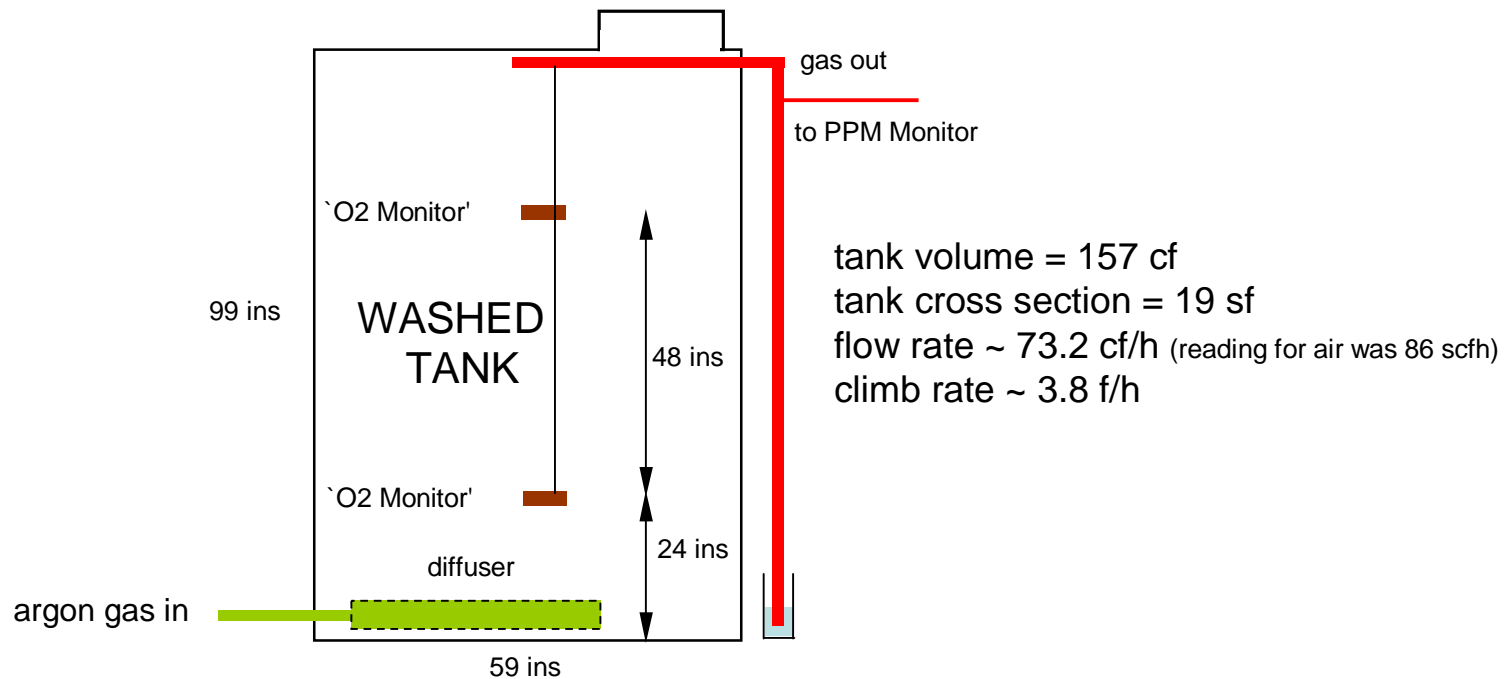


Test of purging a volume from atmosphere:

insert Argon gas at bottom of tank over large area at low velocity;

the Argon introduced being heavier than air will act as a piston and drive the air out of the tank at the top;

fewer volume changes than simple mixing model will achieve a given reduction in air concentration.

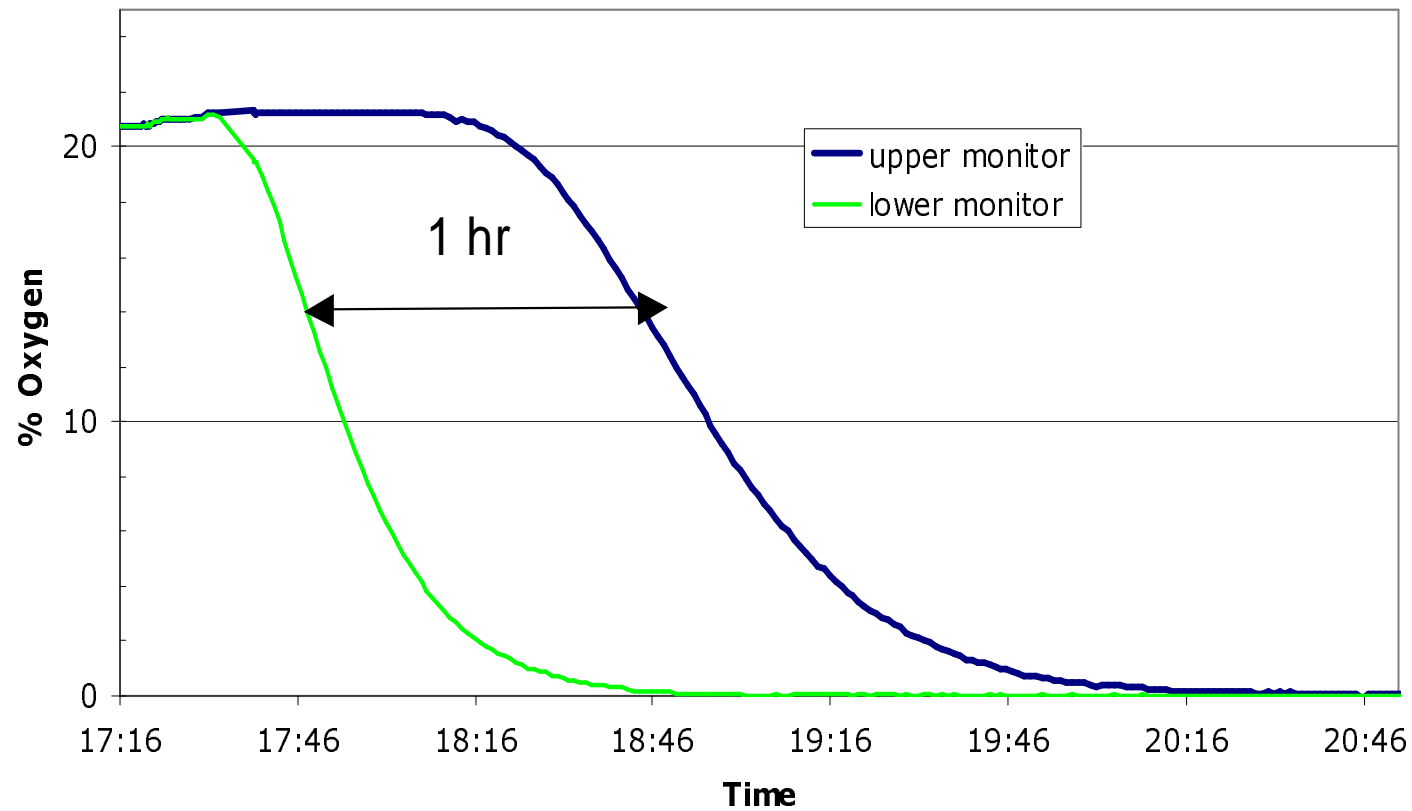


data of 2-24 and 2-25-06



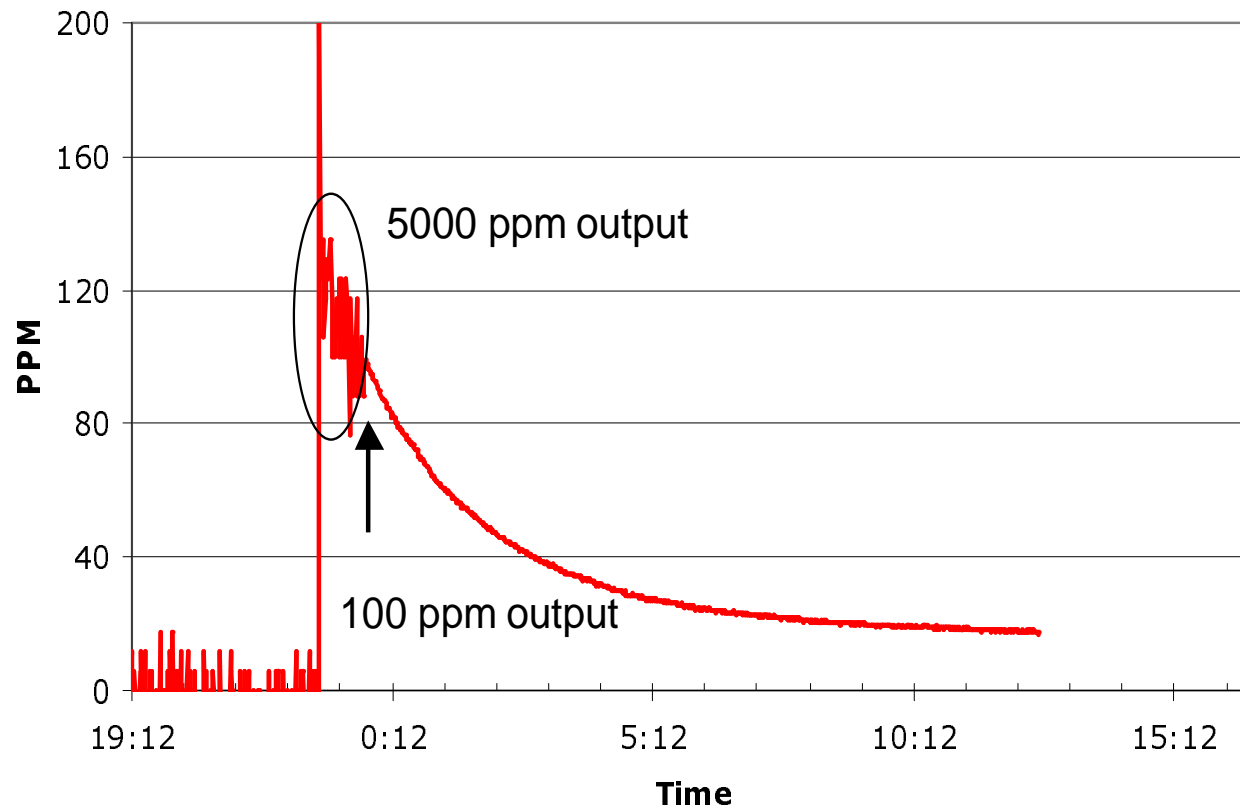
data of 2-24 and 2-25-06

## Oxygen % vs Time



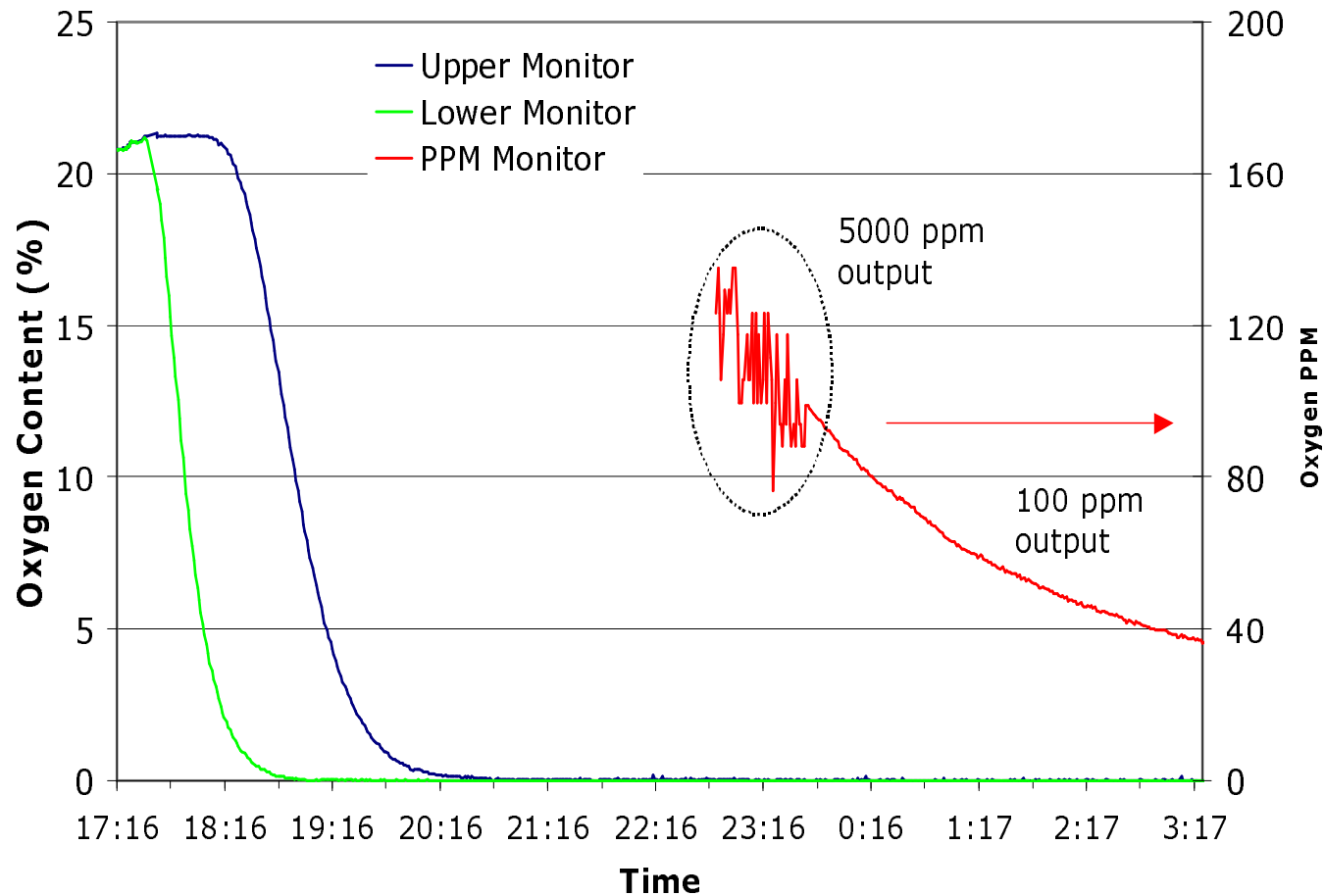
showing the evolution of the oxygen concentration at different heights

## PPM Monitor



showing the evolution of the oxygen concentration at the top of the tank

## Oxygen Content vs Time



to 100 ppm (reduction of 2,000) takes 6 hrs = 2.6 volume changes  
(cf simple mixing, which predicts  $\ln(2000) = 7.6$  volume changes)